

EXFOR/CSISRS Statistics @ NNDC



-From May 1st to Sept. 30th, 2005

1494 different users

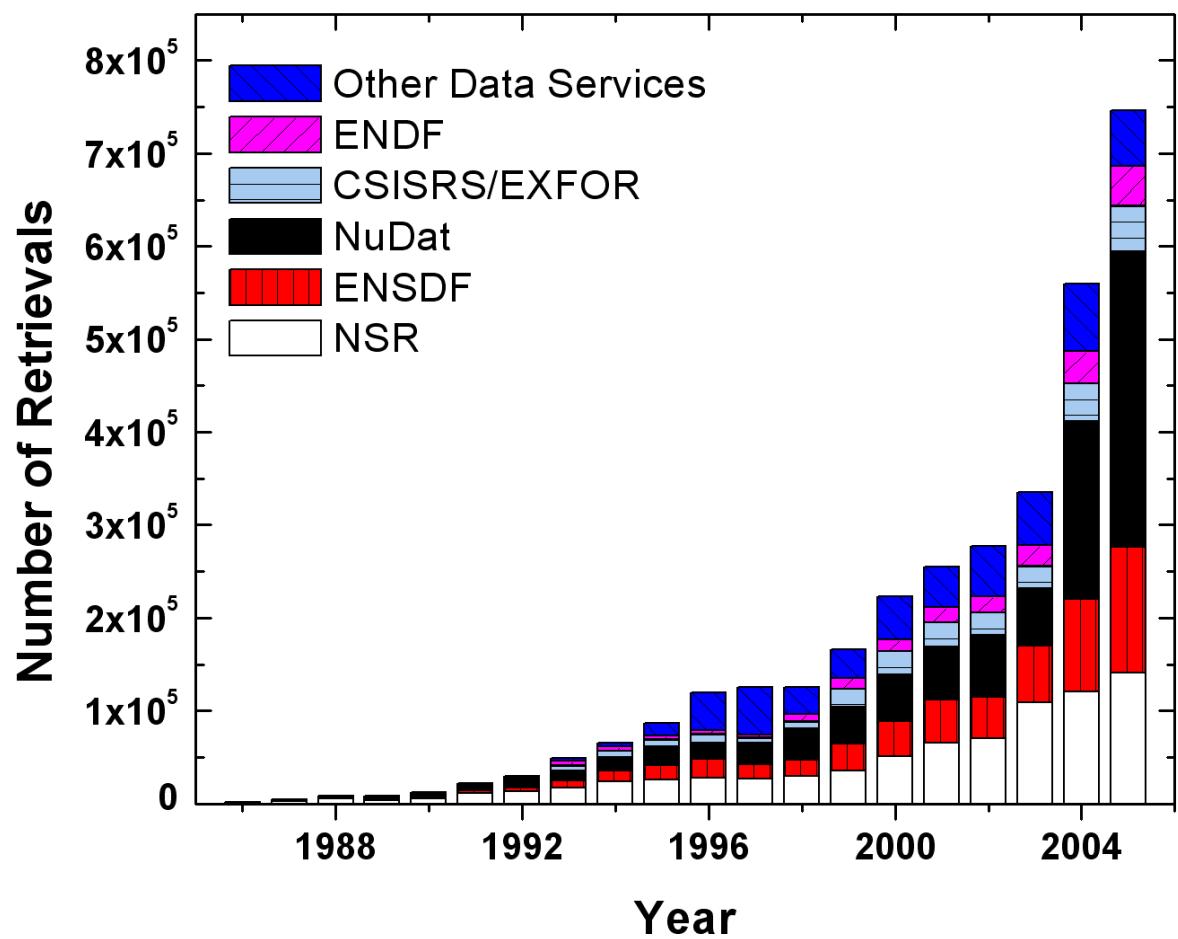
10/days

14 400 successful retrievals

94/days

19 465 connections

127/days

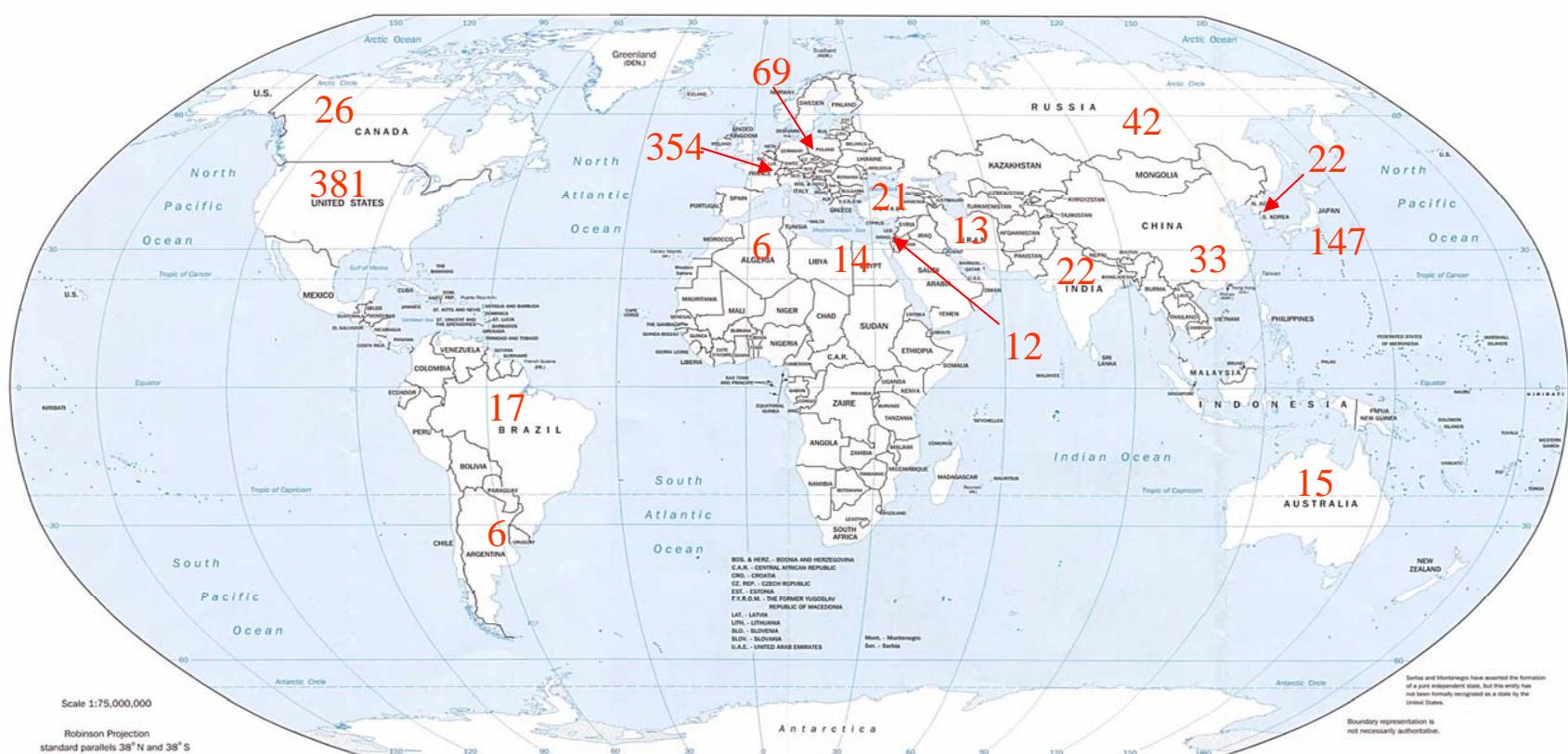


Number of users (World) 1

May 1st to Sept. 30th, 2005 (at NNDC)

-1494 users (10 different users/day)

- US + Canada + South America : 430 29 %
- Europe + Russia : 468 31 %
- Asia (Japan+China+Korea+...) : 224 15 %
- Rest of the world (Africa + Middle East) : 94 6 %



Number of users (World) 2

May 1st to Sept. 30th, 2005 (at NNDC)

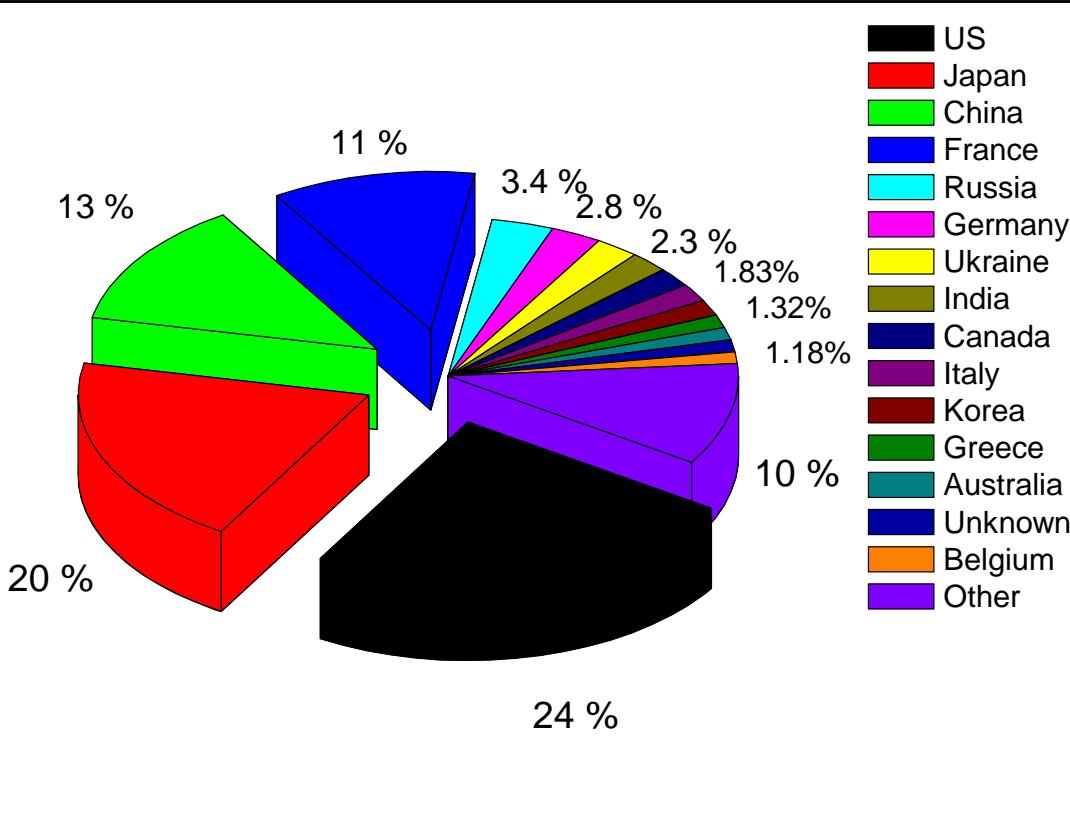
Country	Number of Users	
.edu	182	12.18%
.gov	171	11.45%
Japan	147	9.84%
.com	116	7.76%
.net	106	7.10%
France	103	6.89%
Germany	65	4.35%
Italy	51	3.41%
Unknown	47	3.15%
Russia	42	2.81%
Switzerland	36	2.41%
China	33	2.21%
Greece	31	2.07%
Canada	26	1.74%
Korea	22	1.47%
India	22	1.47%
UK	21	1.41%
Turkey	21	1.41%
Brazil	17	1.14%
Czech Republic	16	1.07%
.org	15	1.00%
Australia	15	1.00%
Spain	14	0.94%
Hungary	14	0.94%
Egypt	14	0.94%
.mil	13	0.87%
Iran	13	0.87%
Finland	11	0.74%
Israel	12	0.80%
Romania	11	0.74%

Country	Number of Users	
Poland	8	0.54%
Austria	7	0.47%
Netherlands	6	0.40%
Argentina	6	0.40%
Algeria	6	0.40%
Ukrania	5	0.33%
Croatia	4	0.27%
Viet Nam	4	0.27%
Danemark	3	0.20%
Sweden	3	0.20%
South Africa	3	0.20%
Portugal	3	0.20%
Bulgaria	3	0.20%
Georgia	3	0.20%
Norway	2	0.13%
Taiwan	2	0.13%
Yugoslavia	2	0.13%
Peru	2	0.13%
Belarus	2	0.13%
Myanmar	2	0.13%
Pakistan	2	0.13%
New Zealand	1	0.07%
Iraq	1	0.07%
Hong Kong	1	0.07%
Thailand	1	0.07%
Estonia	1	0.07%
Singapore	1	0.07%
Morocco	1	0.07%
Kazakhstan	1	0.07%
United Arab Emirates	1	0.07%

Number of retrievals (World) 1

May 1st to Sept. 30th, 2005 (at NNDC)

- 19465 connections (127 connections/day)
- Asia (Japan+China+Korea+Australia...) : 6755 35 %
- US + Canada + South America : 5417 28 %
- Europe : 4867 25 %
- Russia : 653 3 %
- Rest of the world (Africa + Middle East) : 101 1 %



Number of retrievals (World) 2

March 1st to Sept. 30th, 2005 (at NNDC)

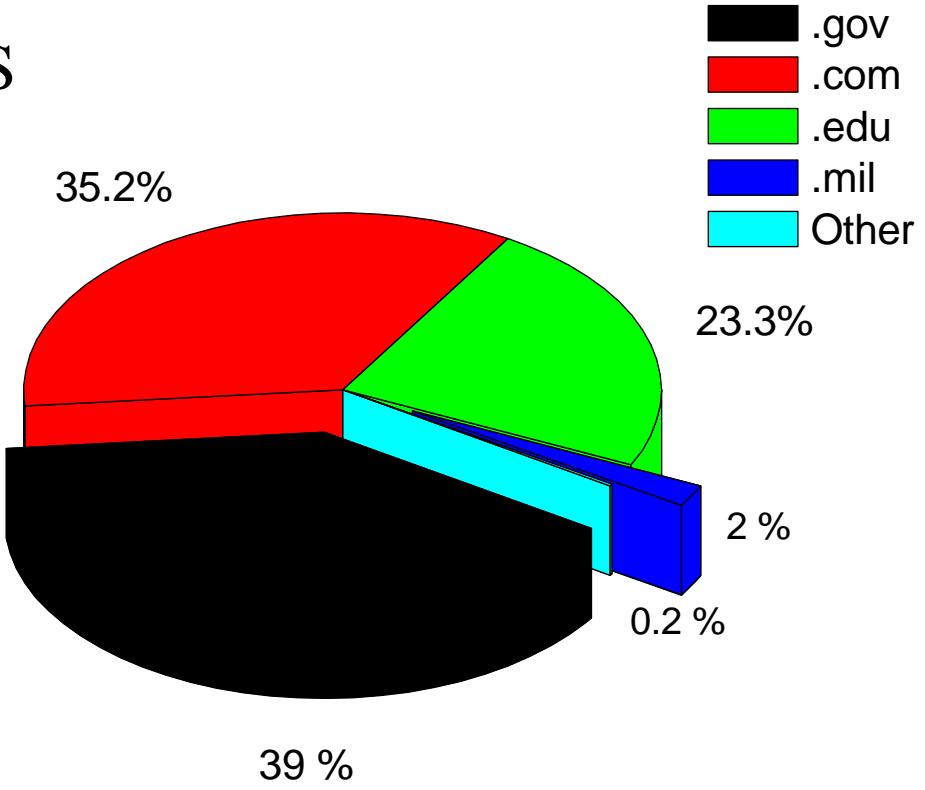
Country	Nbr. Of retrieval	
US	4597	24.30%
Japan	3735	19.75%
China	2442	12.91%
France	2138	11.30%
Russia	653	3.45%
Germany	533	2.82%
Ukraine	464	2.45%
India	402	2.13%
Canada	376	1.99%
Italy	346	1.83%
Korea	311	1.64%
Greece	249	1.32%
Australia	240	1.27%
Unknown	235	1.24%
Belgium	224	1.18%
Brazil	202	1.07%
Turkey	177	0.94%
Egypt	153	0.81%
Hungary	143	0.76%
Iran	140	0.74%
Romania	120	0.63%
Argentina	102	0.54%
Finland	90	0.48%
Netherlands	81	0.43%
Viet Nam	81	0.43%
UK	80	0.42%
Switzerland	75	0.40%
Israel	61	0.32%
Austria	56	0.30%
Spain	56	0.30%

Country	Nbr. Of retrieval	
Czech Republic	52	0.27%
Kazakstan	48	0.25%
Danemark	39	0.21%
Poland	27	0.14%
South Africa	26	0.14%
New Zealand	23	0.12%
Bulgaria	20	0.11%
Myanmar	20	0.11%
Algeria	17	0.09%
Pakistan	14	0.07%
Georgia	12	0.06%
Portugal	11	0.06%
Chilie	8	0.04%
Croatia	8	0.04%
Belarus	7	0.04%
Norway	6	0.03%
Taiwan	5	0.03%
Thailand	3	0.02%
Peru	2	0.01%
Estonia	1	0.01%
Iraq	1	0.01%
Morocco	1	0.01%
Singapure	1	0.01%
United Arab Emirates	1	0.01%
Yougoslavia	1	0.01%

Number of retrievals (USA) 1

March 1st to Sept. 30th, 2005 (at NNDC)

All US



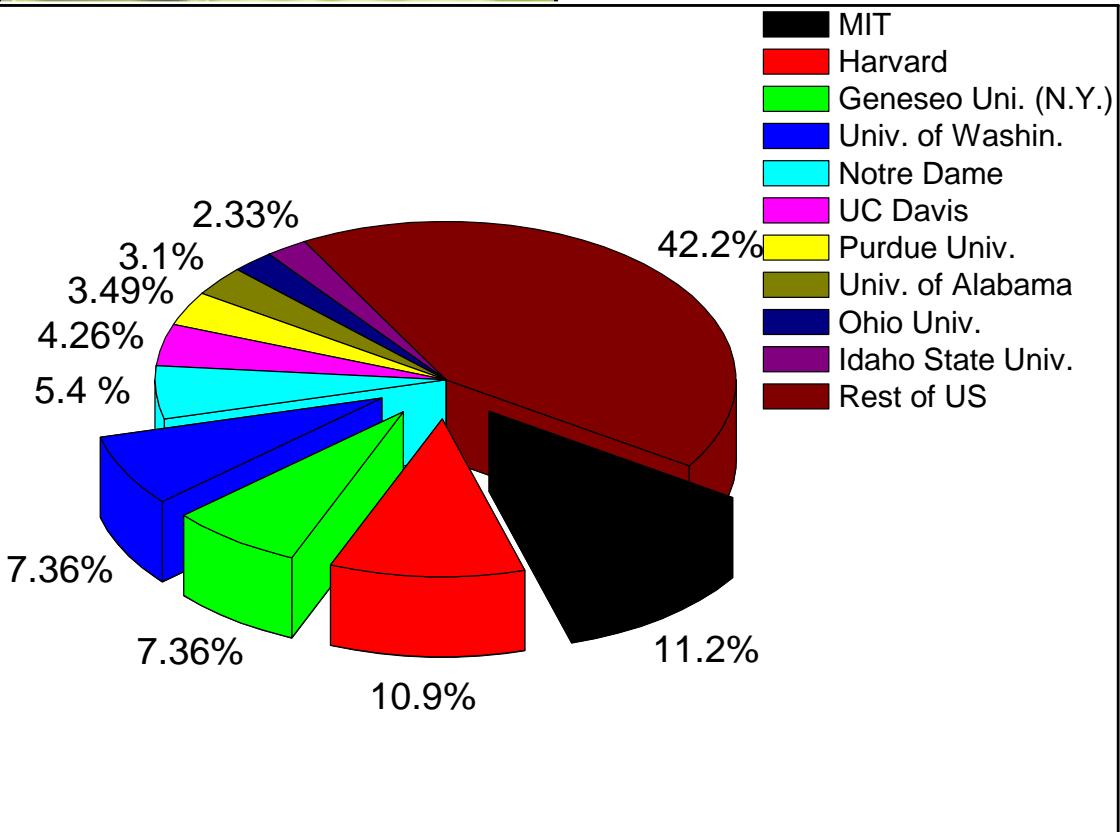
- 1) 24 % .com
- 2) 20 % LANL
- 3) 6 % LLNL
- 4) 4 % LBL
- 5) 3 % ORNL
- 6) 3 % MIT
- 7) 3 % Harvard
- 8) 2 % N.Y. State Univ.
- 9) 2 % Washing. Univ.
- 10) 2 % BNL

Statistics

Number of retrievals (USA) 2

March 1st to Sept. 30th, 2005 (at NNDC)

US Universities



Graduate School Rankings By U.S. News & World Report: NUCLEAR ENGINEERING

Rank	Top 10 Universities
1	Massachusetts Institute of Technology
2	University of California, Berkeley
3	Texas A&M University, College Station
3	University of Illinois, Urbana-Champaign
3	University of Michigan, Ann Arbor
3	University of Wisconsin, Madison
7	Purdue University, West Lafayette
8	North Carolina State University
9	Penn State University, University Park
10	University of Florida

[NOTE: This table lists the top universities that were included in a 2003 ranking by U.S. News & World Report.]

Source: U.S. News & World Report Graduate School Rankings

Statistics

Number of retrievals (USA) 2

March 1st to Sept. 30th, 2005 (at NNDC)

4597 retrievals

US Government Organization	Retrievals %
LANL	19.3
LLNL	6.1
LBL	3.5
ORNL	3.1
BNL	1.7
ANL	1.4
SANDIA	1.0
NIST	0.6
NASA	0.3
DOE	0.2
FNAL	0.1
INEL	0.1
KAPL	0.1

Private Company	Retrievals %	
.com	24.4	
SAIC	4.0	R & D
GE	3.9	
ATK	0.6	US Missile
SRI	0.4	R & D
CECO	0.2	Electricity

US University	Retrievals %
MIT	2.9
Harvard	2.8
Geneseo Uni. (N.Y.)	1.9
Univ. of Washin.	1.9
Notre Dame	1.4
UC Davis	1.1
Purdue Univ.	0.9
Univ. of Alabama	0.8
Ohio Univ.	0.6
Idaho State Univ.	0.6
Florida State Univ.	0.6
Wisconsin Univ.	0.6
Missouri Univ.	0.6
UCLA Univ.	0.5
Columbia Univ.	0.4
Virginia Univ.	0.4
Delaware Univ.	0.4
Slac Stanford	0.3
RPI Univ.	0.3
Michigan Univ.	0.3
Washington Univ.	0.3
Oregon St. Univ.	0.3
Univ. of Texas	0.2

US Military	Retrievals %
Navy+Army	1.7
Pacific Northwest Nat. Lab.	0.2

Other	Retrievals %
TNTECH.edu	1.07%
SLAC	0.78%
Indiana Univ.	0.34%
Wittenberg Univ.	0.29%
Gettysburg Univ.	0.27%
Jlab	0.27%
MSU	0.27%
Yale Univ.	0.25%
Kansas Univ.	0.22%
Rochester Univ.	0.22%
Connecticut Univ.	0.20%
Colorado Univ.	0.13%
Fermi lab.	0.13%
Nevada Univ.	0.13%
Northwestern Univ.	0.11%
Rutgers Univ.	0.11%
Pittsburg Univ.	0.09%
Chicago Univ.	0.09%
Department of Veterans Affairs	0.09%
Berkeley	0.07%
Murray State Univ.	0.07%
SUNY (not Geneseo)	0.07%
Duke Univ.	0.04%
Mines Univ.	0.04%
Tufts Univ.	0.04%
Western Kentucky Univ.	0.04%
cmu.edu	0.02%
Missouri Univ.	0.02%
Nucl. Regulation Commission	0.02%
Department of Treasure	0.02%
Houston univ.	0.02%
Kentucky Univ.	0.02%
New Hampshire Univ	0.02%
Pittsburg Hospital	0.02%
Texas Univ.	0.02%
Tenesse Univ.	0.02%
Princeton	0.02%



Experimental Nuclear Reaction Data (EXFOR / CSISRS)

Database Version of October 03, 2005



New: [Direct link to Journals](#)

The EXFOR library contains an extensive compilation of experimental nuclear reaction data. Neutron reactions have been covered most extensively, while charged particle and photon reactions have been covered less extensively. The library contains data from many different experiments and sources.

Standard Request (example): Requests: [Extended](#) [Advanced](#)

<input type="button" value="Submit"/>	<input type="button" value="Reset"/>
Target <input type="checkbox"/>	<input type="text"/>
Reaction <input type="checkbox"/>	<input type="text"/>
Product <input type="checkbox"/>	<input type="text"/>
Quantity <input type="checkbox"/>	<input type="text"/>
Energy from <input type="text"/> to <input type="text"/> eV	<input type="button" value=""/>
Author(s) <input type="checkbox"/>	<input type="text"/>
Publication year <input type="checkbox"/>	<input type="text"/>
Last modified <input type="checkbox"/>	<input type="text"/>
Accession # <input type="checkbox"/>	<input type="text"/>
Options <input type="checkbox"/> Exclude superseded data <input type="checkbox"/> No reaction combinations (ratios, etc.) Sort by: <input type="radio"/> Reaction <input type="radio"/> Accession# (Entry#, Subent#)	
Feedback Options <input type="checkbox"/> Comments/Remarks? Would you like your data compiled? <input type="checkbox"/> Previously submitted comments News on Compilations	
<input type="button" value="Clone Request"/> <input type="button" value="CINDA"/> <input type="button" value="ENDF"/>	
<input type="button" value="Submit"/>	<input type="button" value="Reset"/>

Note:

- all criteria are optional (selected by checking)
- selected criteria are combined for search with logical **AND**
- criteria separated in a field by **"!"** are combined with logical **OR**
- wildcards and intervals are available

Database Manager: Dimitri Rochman, NNDC, Brookhaven National Laboratory (drochman@bnl.gov)

Web and Database Programming: Viktor Zerkin, NDS, International Atomic Energy Agency (V.Zerkin@iaea.org)

Data Source: [Network of Nuclear Reaction Data Centres](#), coordinator: Otto Schwerer, NDS, IAEA (O.Schwerer@iaea.org)

% of use
(combination allowed)

Target :	84 %
Reaction:	75 %
Quantity :	36 %
Product :	28 %
Accession:	8 %
Last Modified:	1 %
Area :	< 0.1 %
Publi. Year:	< 0.1 %
Energy :	Unknown

What are people looking for ? 1

Induced reaction	Retrievals	
	%	
	NNDC	NDS
Neutron	40.0	47.7
Proton	20.0	17.7
Deuteron	11.5	2.9
Alpha	13.7	3
Gamma	5.8	2.4
Other	9.0	26.3

Specific Reaction	NDS	NNDC
N,G	10.1	5.9
P,N	6.1	5.1
N,P	5.3	2.9
N,TOT	4.7	8.3
P,X	4.4	2.8
N,2N	4.0	3.3
N,F	3.6	2.4
N,INL	3.5	1.7
N,A	3.5	3.6
N,X	2.7	1.5
N,EL	2.1	4.3
G,N	1.9	2.6
N,D	1.4	0.4
N,N+P	1.3	0.3
D,N	1.2	2.6
Other	44.2	52.2

Statistics

What are people looking for ? 2

Quantity	Retrievals		
	%		
	NNDC	NDS	
CS	Cross section data	79.00	67.85
DA	Differential data with respect to angle	9.01	7.49
DAE	Differential data with respect to angle and energy	2.32	3.33
DE	Differential data with respect to energy	2.18	2.84
RP	Resonance parameters	1.46	0.50
TT	Thick target yields	1.35	1.89
SP	Gamma spectra	1.07	0.90
CSP	Partial cross section data	0.94	4.35
RI	Resonance integrals	0.90	0.80
FY	Fission product yields	0.76	2.17
DAP	Partial differential data with respect to angle	0.25	1.16
DEP	Partial differential data with respect to energy	0.25	1.11
PY	Product yields	0.23	0.99
MFQ	Miscellaneous fission quantities	0.18	0.50
E	Kinetic energies	0.17	0.50
COR	Secondary particle correlations	0.14	0.50
RR	Reaction rates	0.11	0.19
NQ	Nuclear quantities	0.11	0.17
POL	Polarization data	0.08	0.12
CST	Temperature dependent cross section data	0.04	0.02
TTD	Differential thick target yields	0.03	1.13
TTP	Partial thick target yields	0.03	1.09
L	Scattering amplitudes	0.00	0.02

What are people looking for ? 3

Target	NNDC	NDS
	%	
Fe	6.21	5.17
C	6.03	3.98
Ca	5.11	2.11
H	4.95	1.71
Al	4.91	2.48
Ni	4.40	3.10
Li	4.35	2.27
U	3.96	6.76
Zn	3.72	3.70
O	3.37	3.19
Be	3.25	2.18
Pb	3.07	3.75
Mo	2.77	1.10
Ge	2.42	2.54
Sn	2.40	3.52
B	2.39	1.79
Cu	2.20	4.35
W	2.04	2.23
N	1.88	1.86
Th	1.76	1.66
Zr	1.75	1.60
Cd	1.64	1.75
Te	1.34	2.18
Cr	1.19	1.04
Bi	0.98	1.46
Other	21.89	32.52

Actinides	
Target	NNDC
	%
Th	1.76
U	3.96
Np	0.40
Pu	1.49
Am	1.38
Cm	2.48
Cf	0.61
Total	12.01

Sta